Attorney's Docket No. <u>UC2001-209-1</u>

PATENT



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Box Patent Application Assistant Commissioner for Patents** Washington, D.C. 20231

### **NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of Inventor(s):

RANDALL G. MUTTERS; JAMES W. ECKERT

For (title):

1.

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METHOD AND APPARATUS FOR DETERMINING PLANT NUTRIENT STATUS

## This new application is for a(n): X Original (nonprovisional) Design Plant

Divisional

**Type of Application** 

- Continuation Continuation of PCT designating US
- Continuation-in-part (CIP)

#### **CERTIFICATION UNDER 37 CFR 1.10**

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date February 6, 2001 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number <u>EL484718426US</u> addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

> Jerry V. King (Type or print name of person mailing paper)

(Signature of person mailing paper)

Each paper or fee referred to as enclosed herein has the number of the "Express Mail" label placed thereon prior to NOTE: mailing. 37 CFR 1.10(b).

CFR 1.153 (Design) Application

Pages of claims

Pages of specification

2.

21

10

of claims	5
of Abstra	act
of draw	ing
formal	
informa	
_	The enclosed drawing(s) include photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).
ers enc	losed
ary Am	endment
tion Dis	closure Statement
TO - 14	49
s	
zation o	f Attorney(s) to Accept and Follow Instructions from Representative
Comme	ents
Oath	
ed	
d by:	
invento	r(s)
legal re	epresentative of inventor(s). 37 CFR 1.42 or 1.43.
_	ventor or person showing a proprietary interest on behalf of inventor who I to sign or cannot be reached.
	this is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. (See item 18 below for fee.)

Papers Enclosed Which Are Required For Filing Date Under 37 CFR 1.53(b) (Regular) or 37

	X	Not En	closed.
		<u>X</u>	Application is made by a person authorized under 37 CFR 1.41(c) on behalf of all of the above named inventor(s). (The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).
		<del></del>	Attached is a showing that the filing is authorized. (Not required unless called into question. 37 CFR 1.41(d)).
5.	Invent	orship S	Statement
	The inv	entorshi	p for all the claims in this application are:
	X	The sa	me
			or
		Are no	t the same. An explanation, including the ownership of the various claims at the
		time the	e last claimed invention was made,
		_	is submitted.
			will be submitted.
6.	Langu	age	
	X	English	
		non-En	glish
		<del></del>	the attached translation is a verified translation. 37 CFR 1.52(d).
7.	Assign	ment	
		An ass	ignment of the invention to:
			is attached. A separate "ASSIGNMENT COVER LETTER ACCOMPANYING
		NEW P	ATENT APPLICATION" is also attached.
		X	will follow.
8.	Benefi	t of Prio	r U.S. Application(s) (35 U.S.C. 119(e), 120 or 121)

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NOTE:

37 CFR 1.78(a).

Copy from a prior application (37 CFR 1.63(d)) (divisional or continuation only)

"In order for an application to claim the benefit of a prior filed copending national application, the prior application must name as an inventor at least one inventor named in the later filed application and disclose the named inventor's invention claimed in at least one claim of the later filed application in the manner provided by the first paragraph of 35 U.S.C. 112."

Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120 or 121)

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NOTE: "In addition, the prior application must be (1) complete as set forth in § 1.51, or (2) entitled to a filing date as set forth in § 1.53(b) and include the basic filing fee set forth in § 1.16, or (3) entitled to a filing date as set froth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time set forth in § 1.53(d)." 37 CFR 1.78(a).

NOTE: "Any nonprovisional application claiming the benefit of one or more prior filed copending provisional applications must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior provisional application, identifying it as a provisional application, and including the provisional application number (consisting of the series code and serial number) and filing date." 37 CFR 1.78(a)(4).

NOTE: "Any nonprovisional application claiming the benefit of one or more prior filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior application, identifying it by application number (consisting of the series code and serial number) and filing date or international application number and international filing date and indicating the relationship of the applications. Cross-references to other related applications may be made where appropriate. (See §1.14(b))." 37 CFR 1.78(2).

Applicant(s) hereby claim(s) the benefit of the filing date of prior U.S. Application Serial No. filed on

(a) Application History (title as originally filed and as last amended, serial number, and filing date of all prior applications):

Title:

Ser. No.:

Filed:

(b) Name of applicant(s) (as originally filed and as last amended), and current correspondence address of applicant(s):

Name:

Address:

NOTE: The proper reference to a prior filed PCT application which entered the U.S. national phase is the U.S. serial number and the filing date of the PCT application which designated the U.S.

NOTE: (1) Where the application being transmitted adds subject matter to the International Application then the filing can be as a continuation-in-part or (2) it is desired to do so for other reasons, then the filing can be as a continuation.

NOTE: The deadline for entering the national phase in the U.S. for an international application was clarified in the Notice of April 28, 1987 (1079 O.G. 32 to 46) as follows:

"The Patent and Trademark Office considers the international application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Examination has been filed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a Demand for International Preliminary Examination which elected the United States of America has been filed prior to the expiration of the 19th month from the priority date, provided that a copy of the international application has been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively. If a copy of the international application has not been communicated to the Patent and Trademark Office within the 20 or 30 month period, respectively, the international application becomes abandoned as to the United States 20 or 30 months from the priority date, respectively. These periods have been placed in the rules as paragraph (h) of § 1.494 and paragraph (i) of § 1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application."

9.	Priority	Claim for Prior A	pplication (35 U.S.0	C. 119)					
•	The price	r U.S. application I above in item 8, i	(s), including any p n turn itself claim(s)	rior Interna foreign prio	tiona rity (i	l Appl es) as	ication des follows:	ignating	the U.S.
(country)		(appln. no.)		(filed on)					
(country)		(appln. no.)		(filed on)					
(country)	7	(appin. no.)		(filed on)		<del> </del>			
The ce	ertified cop	y (ies)							
	i	s (are) attached.							
	!	nas (have) been	filed on which was filed on		in	prior	application	n serial	number
	'	will follow.							
WARNII	 	nternational Bureau ma continuing application. nternational Bureau is entered. Such folders a not be available if nee	the priority application ay not be relied on without this is so because the placed in a folder and is are disposed of if the naticated later in the prosecutionity documents from the process.	ut the need to certified copy not assigned and onal stage is not on a con	file a of the a U.S. ot ent	certified e priority serial reered. To g applic	copy of the partication application unles herefore, such ation. An all	priority app communice the natio h certified ternative v	lication in a ated by the nal stage is copies may yould be to

### 10. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed

relied on. Notice of April 28, 1987 (1079 O G. 32 to 46).

NOTE: "If the continuation, continuation-in-part, or divisional application is filed by less than all the inventors named in the prior application, a statement <u>must</u> accompany the application when filed requesting deletion of the names of the person or persons who are not inventors of the invention being claimed in the continuation, continuation-in-part, or divisional application." 37 CFR 1.62(a) [emphasis added] (dealing with the file wrapper continuation situation).

resources required to request transfer, retrieve the folders, make suitable record notations, transfer the certified

copies, enter and make a record of such copies in the continuing application are substantial. Accordingly, the priority documents in folders of international applications which have not entered the national stage may not be

NOTE: "In the case of a continuation-in-part application which adds and claims additional disclosure by amendment, an oath or declaration as required by § 1.63 must be filed. In those situations where a new oath or declaration is required due to additional subject matter being claimed, additional inventors may be named in the continuing application. In a continuation or divisional application which discloses and claims only subject matter disclosed in a prior application, no additional oath or declaration is required and the application must name as inventors the same or less than all the inventors in the prior application." 37 CFR 1.60(c). (dealing with the continuation situation).

			(complete applicable item (a) or (b) below)
(a)	<del>~·····</del>	This ap whose	plication discloses and claims only subject matter disclosed in the prior application particulars are set out above and the inventor(s) in this application are
		<del></del>	the same
			less than those named in the prior application and it is requested that the following inventor(s) identified above for the prior application be deleted:
			Name:
			Name:
			Name:
(b)	<del></del>	is being	plication discloses and claims additional disclosure and a new declaration or oath filed. With respect to the prior application whose particulars are set out above, intors in this application are
			the same
			add the following inventors
			Name:
			Name:
			Name:
11.	Mainte	nance of	f Copendency of Prior Application
NOTE:	The PTC the pape	O finds it us ers constitut	seful if a copy of the petition filed in the prior application extending the term for response is filed with ing the filing of the continuation application. Notice of November 5, 1985 (1060 O.G. 27).
	Extens	ion of tim	e in prior application
	(This it	em must he prior a	be completed and the necessary papers filed in the prior application if the period pplication has run)
		A petitio	On, fee and response has been filed to extend the term in the prior application uptil

A copy of the petition for extension of time in the prior application is attached.

Conditional Petition For Extension Of Time In Prior Application

(complete this item and file conditional petition in prior application if previous item not applicable)

A conditional petition for extension of time is being filed in the pending prior application.

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### 12. Abandonment of Prior Application (if applicable)

Please abandon the prior application at a time while the prior application is pending or when the petition for extension of time or to revive in that application is granted and when this application is granted a filing date so as to make this application copending with said prior application.

NOTE: According to the Notice of May 13, 1983, (103, TMOG 6-7), the filing of a continuation or continuation-in-part application is a proper response with respect to a petition for extension of time or a petition to revive and should include the express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing date to the continuing application.

NOTE: "A registered attorney or agent acting under the provisions of § 1.34(a), or of record, may also expressly abandon a prior application as of the filing date granted to a continuing application when filing such a continuing application." 37 CFR 1.138.

# 13. Petition For Suspension Of Prosecution For The Time Necessary To File An Amendment (if applicable)

WARNING:

"The claims of a new application may be finally rejected in the first Office Action in those situations where (1) the new application is a continuing application of, or a substitute for, an earlier application, and (2) all the claims of the new application (a) are drawn to the same invention claimed in the earlier application, and (b) would have been properly rejected on the grounds of art of record in the next Office Action if they had been entered in the earlier application." MPEP § 706.07(b).

NOTE:

Where it is possible that the claims on file will give rise to a first action final for this continuation application and for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) it may be desirable to file a petition for suspension of prosecution for the time necessary.

(check the next item, if applicable)

There is provided herewith a Petition to Suspend Prosecution For The Time Necessary To File An Amendment (New Application Filed Concurrently)

### 14. Notification in Parent Application of this Filing (if applicable)

A notification of the filing of this application is being filed in the parent application from which this application claims priority under 35 U.S.C. 120.

16.

## 15. Fee Calculation (37 CFR 1.16)

	Α.	X	Regular	<b>Application</b>
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		C	LAIMS A	S FILED	)			1998
Num	ber filed		Num	ber Extra	<b>a</b>	Rate		Basic Fee \$ 710.00
Total				_				
Claims 37 CFR 1.16(c)	34	- 20	=	14	X	\$18.00	=	252.00
Independent								
Claims (37 CFR 1.16(b))	5	- 3	=	2	Χ	\$80.00	=	160.00
Multiple dependent claim(s),								
if any (37 CFR 1.16(d))					+	\$270.00	=	

(37 CFF	R 1.16(b))	5 - 3	=	2	Χ	\$80.00	=		160.00
e depend 37 CFR	dent claim(s), 1.16(d))				+	\$270.00	=		
_	Amendment ca								
_	Amendment de Fee for extra cl		•			•			
				Filing	g Fee C	alculation		\$ <u>1,12</u>	2.00
B	<b>Design applic</b> (\$320.00 - 37 C								
		Filing Fee Ca	alculation	1				\$	
C	Plant applicati (\$490.00 - 37 C								
		Filing Fee Ca	alculatior	1				\$	<del></del>
Small	Entity Statemer	nt(s)							
<u>X</u>	Applicant qualit	fies as a small	entity ur	nder 37 (	CFR 1.9	and 1.27			
	Status as a sn filed on application und is still proper a included.	ler 35 U.S.C.	119(e), 1	, from 20, 121	which or 365(c	benefit is to be benefit is to be be be benefit is to be be been to be be been to be be been to be be been to be be benefit is to be be benefit in the benefit is to be be benefit in the benefit is to be benefit in the benefit	eing d status	claimed as a sm	for this all entity
	Filing Fee Calc	ulation (50% d	of <b>A</b> , <b>B</b> or	C abov	e)			\$	561.00

17.	Requ	est for	International-Type Search (37 CFR 1.104(d))	
		Pleas	se prepare an international-type search report for this ap	oplication at the time when
		natio	nal examination on the merits takes place.	
18.	Fee I	Paymen	t Being Made At This Time	
	<u>X</u>	Not E	Enclosed	
		<u>X</u>	No filing fee is to be paid at this time. (This and the sur	charge required by 37 CFR
			1.16(e) can/will be paid subsequently.)	
		Enclo	osed	
		<u>X</u>	basic filing fee	\$561.00
			recording assignment (\$40.00; 37 CFR 1.21(h))	\$
		_	petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. (\$130.00; 37 CFR 1.47 and 1.17(h))	\$
		*******	for processing an application with a specification in a non-English language. (\$130.00; 37 CFR 1.52(d) an 1.17(k))	\$
			processing and retention fee (\$130.00; 37 CFR 1.53(d) and 1.21(l))	\$
			fee for international-type search report. (\$40.00; 37 CFR 1.21(e))	\$
			Total Fees Enclosed	\$561.00
19.	Meth	od of P	ayment of Fees	
	_	Chec	k in the amount of \$	
	_		ge Account No in the amount of \$ plicate of this transmittal is attached.	•
20.	Auth	orizatio	n to Charge Additional Fees	
	_		Commissioner is hereby authorized to charge the follow r and during the entire pendency of this application to Acc	
			37 CFR 1.16(a), (f) or (g) (filing fees)	
			37 CFR 1.16(b), (c) and (d) (presentation of extra claim	ns)

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_	37 CFR 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a
	date later than the filing date of the application)
_	37 CFR 1.18 (application processing fees)
	37 CFR 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to
	37 CFR 1.311(b))

### 21. Instructions As To Overpayment

\_\_ credit Account No. \_\_\_\_

X refund

### 22. Incorporation By Reference of Papers Identified Herein

Applicant(s) hereby incorporate(s) by reference all papers which are identified in this New Application Transmittal.

### 23. Correspondence Address

Please use the following correspondence address for all communications:

John P. O'Banion, Reg. No. 33,201 Steven L. Smith, Reg. No. 44,343 O'BANION & RITCHEY LLP 400 Capitol Mall, Suite 1550 Sacramento, CA 95814 (916) 498-1010

Dated: FEBRUARY 6, 2001

SIGNATURE OF ATTORNEY

Steven L. Smith, Reg. No. 44,343

	IAILING BY "EXPRESS N G. MUTTERS; JAMES W. ECI	` '	Docket No. UC2001-209-1
Serial No.	Filing Date	Examiner	Group Art Unit
Invention: METHOD AN	D APPARATUS FOR DETERM	IINING PLANT NUTRIENT ST.	ATUS
I hereby certify that the	following correspondence:		
SPECIFICATION (21 p	ages); CLAIMS (10 pages); ABS  (Identify type of	TRACT (1 page) of correspondence)	
		ce "Express Mail Post Office to ant Commissioner for Patents, W	
FEBRUARY (Date)	6, 2001		
		JERRY V. KI (Typed or Printed Name of Person Mo	<del></del>
		2m /	1 K-3
		(Signature of Person Mailing C	Correspondence)
		EL484718426	SUS
		("Express Mail" Mailing L	ibel Number)
	Note: Each paper must ha	ave its own certificate of mailing.	